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fourth cylindrical pinion (5) which is mounted to rotate with the first shaft, the sets of teeth of the third cylindrical pinion and the fourth cylindrical pinion having the same number of teeth and the same diameter, a double-toothed face gear (38) mounted between and respectively meshing with the sets of teeth of the third cylindrical pinion and the fourth cylindrical pinion, the double-toothed face gear being able to rotate about a second shaft which forms an angle with the first shaft, wherein the double-toothed face gear (38) is provided with coupling teeth (39) for slideably coupling the rotation of the double-toothed face gear (38) to the rotation of the second shaft, and the direction of the coupling teeth being perpendicular to a plane of the coupling teeth of the double-toothed face gear.

8. The gear transmission as claimed in claim 1, wherein the cylindrical pinions (5,6) are helically toothed, and the first and second cylindrical pinions have the same direction as the third and fourth cylindrical pinions when mounted on the same shaft.

Remarks

This amendment is presented to correct errors made with the filing of the first Preliminary Amendment of March 15, 2002. No new subject matter is introduced with the filing of this amendment.

Respectfully submitted,

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Version with Markings to Show Changes Made

1. A gear transmission comprising: a first shaft (45), an intermediate shaft (44) which is parallel to the first shaft, a first cylindrical pinion (6) having a first set of teeth and which is mounted to rotate with the first shaft, a second cylindrical pinion (6) having a second set of teeth and mounted to rotate with the intermediate shaft, the first and second sets of teeth of the first cylindrical pinion and the second cylindrical pinion having the same number of teeth and the same diameter and meshing with one another, a third cylindrical pinion (5) which is mounted to rotate with the first shaft, a fourth cylindrical pinion (5) which is mounted to rotate with the first shaft, ~~a fifth cylindrical pinion (5) which is mounted to rotate with the intermediate shaft,~~ the sets of teeth of the third cylindrical pinion and the fourth cylindrical pinion having the same number of teeth and the same diameter, a double-toothed face gear (38) mounted between and respectively meshing with the sets of teeth of the third cylindrical pinion and the fourth cylindrical pinion, the double-toothed face gear being able to rotate about a second shaft which forms an angle with the first shaft, wherein the double-toothed face gear (38) is provided with coupling teeth (39) for slideably coupling the rotation of the double-toothed face gear (38) to the rotation of the second shaft, and the direction of the coupling teeth being perpendicular to a plane of the coupling teeth of the double-toothed face gear.
8. The gear transmission as claimed in claim 1, wherein the cylindrical pinions (5,6) are helically toothed, and the first and second cylindrical pinions have the same direction as are right-hand pinions ~~when the third and fourth cylindrical pinions~~ when ~~mounted on the same shaft are right-hand pinions, and are left-hand pinions when the third and fourth cylindrical pinions are left-hand pinions.~~